

EHWG STATUS REPORT TO TAEIG

- EHWG HAS TWO ACTIVE TASKS
 - BIRD INGESTION
 - CRITICAL PARTS
- BOTH TASKINGS WERE PUBLISHED IN FEDERAL REGISTER ON 7 NOV 01
- TOR'S WERE AGREED IN MID 2000

4 DEC 01

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Handout 10

EHWG STATUS REPORT TO TAEIG

BIRD INGESTION, BACKGROUND:

- PART 33 AMENDMENT 19, (1998) REVISED BIRD INGESTION STANDARDS
 - LARGE BIRD STANDARD NOT HARMONIZED.
- SUBSEQUENT TOR (PHASE II) DIRECTS EHWG TO:
 - FURTHER DEFINE THE CURRENT BIRD THREAT
 - RECONSIDER FLOCKING BIRD REQUIREMENTS FOR BIRDS > 2.5 LBS.
 - RECOMMEND CHANGES TO THE AMENDMENT 19 RULE AND ADVISORY MATERIAL AS APPROPRIATE
 - CONSIDER HIGH SPEED OPERATIONS AT LOW ALTITUDES
 - (b)(iv) “ASSESS THE AFFECT OF CURRENT BIRD THREAT STATISTICS UPON THE EXISTING FLEET. IDENTIFY AND PROVIDE RECOMMENDATIONS TO THE FAA AND JAA FOR AREAS OF STUDY, OTHER THAN ENGINE CERTIFICATION REQUIREMENTS, WHERE POTENTIAL EXISTS TO SIGNIFICANTLY MITIGATE RISKS ASSOCIATED WITH ENGINE BIRD INGESTION.”

EHWG STATUS REPORT TO TAEIG

BIRD INGESTION, BACKGROUND:

EHWG “BIRDS II” TASK GROUP FORMED (SUB SET OF EHWG, PLUS INGESTION EXPERTS) TO ADDRESS TOR REQUIREMENTS

- EHWG TASK GROUP MEMBERSHIP:

- DICK PARKER P&W, CHAIRMAN

- ORGANIZATIONS REPRESENTED:

ALPA, CAA, DGAC, FAA,GE, HONEYWELL, P&W

PWC, RR, SNECMA, TRANSPORT CANADA

EHWG STATUS REPORT TO TAEIG

BIRD INGESTION STATUS:

- INGESTION DATA FOR LAST 10 YEARS GATHERED AND ANALYZED TO UNDERSTAND CURRENT THREAT(S)
- IDENTIFIED AREA OF CONCERN REGARDING THREAT TO LARGE ENGINES (>6000 SQ INCH INLET) FROM LARGE FLOCKING BIRDS
- IDENTIFIED NEED FOR RUN-ON CAPABILITY FOR LARGE ENGINES AFTER INGESTION OF LARGE FLOCKING BIRD
- GENERAL AGREEMENT REACHED ON RULE AND AC MATERIAL FOR THIS COMBINATION OF ENGINE AND BIRD SIZE
- ANTICIPATE EHWG TECHNICAL AGREEMENT BY END OF YEAR
- EFFORTS NOW FOCUSED ON SMALLER ENGINE SIZES, UTILIZING DATA BASED APPROACH

*winke's 5/18
me*

EHWG STATUS REPORT TO TAEIG

BIRD INGESTION STATUS, CONTINUED:

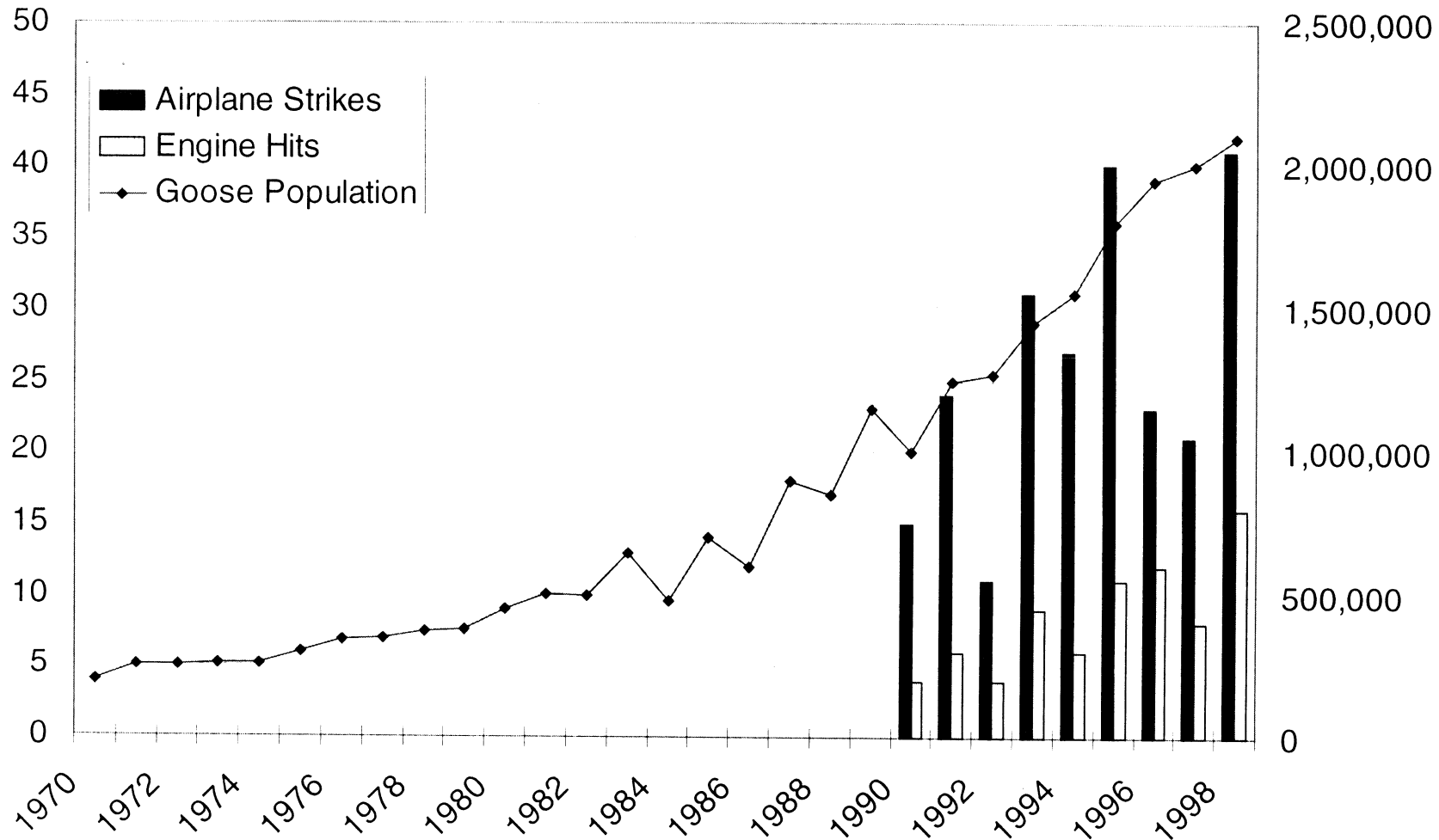
- TASK GROUP MEETING SCHEDULE:
 - 5, 6 DEC 2001
 - FEBRUARY, 2002
- EHWG WILL MEET 9, 10, 11 APRIL TO REVIEW PRODUCT OF TASK GROUP

EHWG STATUS REPORT TO TAEIG

BIRD INGESTION STATUS:

- TASK GROUP HAS PRODUCED A SET OF RECOMMENDATIONS IN RESPONSE TO REQUIREMENT (b)(iv)
- ACCEPTANCE OF RECOMMENDATIONS BY TAEIG IS REQUESTED

Resident Canada Goose Population in N. America and Strikes/Eng Hits in Combined GE/CFMI and PW Fleet



Source: FAA/USDA, P&W, & GE Combined Data

4 DEC 01

Bird Strike Committee USA/Canada

Aug, 2000

- **Goose population out pacing our infrastructure to react**
 - Population will double in 5-7 years
- **Revising engine certification not enough**
 - New engines, new aircraft, >20 years
 - 14,000 legacy aircraft, flying >16,000,000 flights per year, will be flying for >20 yrs

BIRD CONTROL RECOMMENDATIONS TO TAEIG

RECOMMENDATIONS

The following recommendations address concerns regarding the hazard to commercial transport aircraft from large flocking birds.

- ICAO and national regulators should establish regulations that require airports to develop and implement a bird control plan that includes control of the numbers of flocking bird species both on and adjacent to their property. National laws should be provided by the countries concerned to enable airports to carry out these activities.
- National regulators should prevent the establishment of sites that are attractive to birds on, or in the vicinity of, airports.
- Incentives need to be strengthened for airport operators and local authorities to take the necessary actions to reduce/eliminate hazardous wildlife and hazardous wildlife attractants on or near their airport.

BIRD CONTROL RECOMMENDATIONS TO TAEIG

RECOMMENDATIONS, CONTINUED

The following recommendations address concerns regarding the hazard to commercial transport aircraft from large flocking birds. (continued)

- Aviation safety regulators need to lead an effort to inform the public of the hazard to commercial air safety caused by wildlife.
- Countries should establish mechanisms to review populations of flocking bird species over 4 lbs (1.8 kg) and then to manage populations in consultation with conservation and other interests to levels consistent with acceptable flight safety standards.

EHWG STATUS REPORT TO TAEIG

CRITICAL PARTS:

- TOR DIRECTS EHWG TO DEVELOP HARMONIZED RULE AND AC FOR FAR 33.14 AND JAR-E FOR LIFE MANAGEMENT OF CRITICAL PARTS
 - LIFING METHODOLOGY
 - MANUFACTURING CONTROLS
 - SERVICE CONTROLS

EHWG STATUS REPORT TO TAEIG

CRITICAL PARTS, STATUS:

- EHWG CRITICAL PARTS TASK GROUP FORMED (SUB SET OF EHWG, PLUS LIFING EXPERTS) TO ADDRESS TOR REQUIREMENTS
- FIVE MEETINGS HAVE BEEN HELD
- CURRENT JAR-E 515 IS BASIS OF NEW RULE
- RULE AND AC MATERIAL HAS BEEN DRAFTED BY TASK GROUP
- SEVERAL MAJOR ISSUES EXIST

EHWG STATUS REPORT TO TAEIG

CRITICAL PARTS, STATUS:

- EHWG REVIEWED DRAFT RULE AND AC AT OCT. MEETING
- COMMENTS FROM EHWG ARE BEING ADDRESSED BY TASK GROUP
- THIS SUBJECT IS MAJOR TOPIC ON EHWG AGENDA FOR 9-11 APRIL MEETING
- TASK GROUP NEXT MEETING IS 17 -19 APRIL, & WILL ADDRESS OUTCOME OF EHWG REVIEW *- ensure if working grp will have a product*